

## ABSTRACT

The differences in characteristics among parts or the fluctuations of the inductance value of a coil due to temperature variation is lessened by reducing the stray capacitance components induced among the layers of wound conductor, and size reduction and cost reduction are achieved. A winding portion (30) between two flange portions (22a, 22b) is divided into a plurality of sections (30a, 30b, 30c, 30d). One layer of conductor is wound from one end to the other end in each section, and then layers of conductor are wound in the alternately reversed directions to form the multilayer winding portion (30) by solenoid winding. The conductor is preferably wound in such a way that the boundary surface between adjacent sections inclines to a flange portion, which is the winding start, and the boundary surface of an upper layer is closer to the flange portion than that of a lower layer. Further the conductor is preferably wound in such a way that at least portions near upper layers of end faces facing the flange portions are apart from the flange portions so as to be farther from the flange portions than lower layers of the end faces in each section at both ends. This divided solenoid winding coil can be used for an antenna coil or a transformer coil.